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MEMORANDUM

ON THE

REVENUE SURVEY DEPARTMENT,

H. H. THE NIZAM'S GOVERNMENT.

MOULAVIE SYED MAHADI ALI.

1285-1291 FASL



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MOULVIE SYUD MAHDI ALI, Esq.,

Revenue Secretary, H. H. the Nizam's Govt.,

From

Major General GLASFURD,

GULBURGA, 6th August, 1882.

D. ...

I have the honor to submit, for the information of His Excellency the Minister, the enclosed Memoranda of my imspection of the offices of the Superistendants of Survey and Settlement in the Aurangahad and Gulburga Divisions, with notes of my inspection of the Second-rooms of the Talladar's and Tebrildar's offices at Aurangahad.

It was my intention to have inspected the Tebsildar's office at Pyton, and also to have seen how the village papers are kept by the Zhewarees, and with this view Mr. Furdoonjee Jamshedjee had made all arrangements by sending on tents, &c., when unfortunately heavy rais set in. Notwithstanding this, we made an effort to get to Pyton but after proceeding a few miles in that direction, we were obliged to give up the trip owing to the heavy state of the

As full details of my inspection will be found in the enclosed Memoranda, I will only state here, briefly, the conclusion I have arrived at from my visits to Aurangabad and Gulburga.

1st. As regards the measurements, mapping, and classification of villages field by field, I have been most favorably impressed with what I have seen, and judging from five years' personal experience of the Bombay Revenus Survey, I feel convinced that the work done by the Aurangabad and

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Gulburga Survey Departments, will compare favorably with that done by any similar establishments either in Bombay or Berar.

2nd. I think there are some matters of detail and internal administration, which will admit of economy, without endangering or impairing the present efficient condition of the establishments, or the excellent character of the work done.

3rd. The short time I have passed at Aurangabad and Gulburga, and my inability to move amongst the people does not permit me to speak of the actual working of the settlement.

4th. I think it may be possible to reduce the cost of boundary marks. The present cost to each holder of a field will probably be found to range from about two rupces to four, and even five rupces, and as this has to be paid before the people have a chance of comprehending the benefits of the settlement, it is not to be wondered at if it has the effect of introducing the survey and settlement in an unfavorable light.

56th. I saw all the Amistants and Sub-Amistants several times. They appear to be an efficient body of officers. They are all familiar with the language of the records, Mahrathi, and whatever their nationality, all keep their books in Mahrathi; I was agreeably surprised to find that both Mahomedans and Parsees were perfectly at home in the revenuelse.

6. Much credit is due to Mr. Furdoonjee Jamshedjee and Mr. Kader Beg for the efficient condition in which they maintained their establishments, and the out-turn of the work done. They appear to have exercised supervision with intelligence and judgment; and all branches of the Department bear the impress of their zeal and industry.

7th, As one who has had several years' experience of both the Bombay and North-West Provinces system of Survey and Settlement, I cannot conclude without expressing my high appreciation of the ability and perseverance by which you have brought the Survey and Settlement Department, in such a comparatively short period, to its present high state of efficiency.

Sth. I must express my best thanks for the kind attention that has paid me during my tour by Mr. Furdoonjee Jamshedjee, Mr. Kader Beg, Mr. Burjorjee Manockjee, Talukdar of Aurangabad, and Mr. Ikram Ulla Khan, Sudder Talakdar of Gulburga.

I have the honor to be,

Sir, Your most obedient Servant,

(Signed) C. L. R. GLASFURD, Survey and Settlement Commissioner. Notes of Inspection of the offices of the Superintendents Survey and Settlement Aurangabad and Gulburga Divisions.

The buildings in which the Superintendents have their offices, both at Aurangabad and at Gulburga, are in excellent order and in every way suitable for the purposes for which they were constructed. The accommodation is ample for present re-

At Aurangabad the Assistants in charge of measuring establishments find their own offices. At Gulburga all establishments are under the same roof

There are sixteen Assistants and Sub-Assistants on the strength of the Aurangabad Survey Department, and thirteen on the findings Department, and thirteen on the findings Department.

With the exception of two or three absent on leave, I called nearly all these officers before me separately, examinating and minutely their field books and plous, noticed the results of cheeks exercised in the Superintendents' offices, and ascertained the progress of the work made by each officer, and the difficulties, if any, encountered by them.

I found the field books, with one or two exceptions, very well kept, and the work done in a business-like manner. The pletting is neatly done and the areas of fields correctly calculated, as is proved by the tests taken of the work of each Assistant in the offices of the Superintendents

I made one Assistant take a test of five fields of a village close to Aurangabad in my presence, and was satisfied with his style of doing work. The work when nlotted proyed to be very securation.

Similarly I took a test of the classification of another village. On this occasion two Assistant and one Sub-Assistant took separate notes without any commu-

nication with each other. The result disclosed a very slight difference in the opinion of the value of land of all the

Tests could not be taken at Gulburga, as the survey operations have not yet arrived at that point.

ations have not yet arrived at task point.

I saw the examination of books and maps that is being done at Head-Guarters in the offices of books and Maps at the Superintendents' offices in all the state of the Assistants, and in the Superintendents' offices in all the superintendents' offices in all the superintendents' offices in all and ensures that what is done is sufficient in quantity and

good in quality.

I examined the office account books of most of the Assist-

Assistants' Office Accounts, and was satisfied with the manner in which they are kept. Care

will have to be taken that no Assistant retains more Government money in his custody than is absolutely necessary.

I examined the lithographic and printing presses. They

Lithographic and Printing Presses.

are under sufficient supervision as to the amount of work turned out and the guantity of paper used.

I examined the method on which the copies of village

Hair Village Maps.

maps are tested and their copies

prepared. The checks maintained

for the detection of errors, and to ensure accuracy are ample.

I made a careful inspection of the records of some villages

Settlement Records.

of those portions of the districts
that have been settled, calling for
papers at random, and satisfying myself, that any document that is required can be produced without delay.

The manner in which the records are filed, and their registers are kept, is very satisfactory. Nothing coulé be better than the arrangement of the Record-room at Gul-

burga which is fitted up with racks for keeping the records in complete order.

I made a careful impection of the Store-room registers and the stock in hand on the date Stores. and the stock in hand on the date of inspection. The store-rooms are divided into three sections: Contingencies, instruments and stationery. I traced articles entered as contingencies from their purchase from the local traders to the cutries showing payment for them in the Accountant's Department which is under the Deputy Superintendents, and to the entries showing to whom the articles had been issued. I vent carefully through the books showing the stock in hand of instruments and stationery and their issue to the different establishment?

I farther satisfied myself by actual inspection of the balances of stock in hand of various articles, and comparing these with the entries in the registers that the articles were really in hand at the date of my visit.

I was perfectly satisfied with the result. Everything is done to check the irregular or unauthorized issue of stores to any Departments.

In Gulburga the store-room is being fitted with racks, &c.; this, when completed, will be a great improvement on the present method of keeping stores in boxes and almirabs.

I examined the Accountants' Department which is under Accounts. the supervision of Depaty Superinno money can be paid without an order from the Superintendent or Deputy Superinteednet; that receipts are taken
for payments, and the accounts rendered with punctuality
to the Accountant-General.

(Signed) C. L. R. GLASFURD.

MEMORANDUM

ON THE

REVENUE SURVEY DEPARTMENT.

H. H. THE NIZAM'S GOVERNMENT,

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MAULVIE SYED MAHADI ALI-

As I am about to sever my connection with the Revenue Survey Department, with which I have been associated from its commencement in 1285 Paul; (1875-76), down to the present date, a period extending over seven years, I wish to place on record a brief outline of the circumstances under which the work was started, the progress it has made, and the results higher to attained.

The survey operations were first started in the Aurangabad district, it is desirable therefore that I should preface any account with a few remarks on the past revenue management of that tract of country, and speaking broadly, these remarks may be applied to the whole of the Mahratta Districts of His Highness' Dominions.

Up to the year 1263 Fasli (1853-54), it had been the

custom to farm out the land Revenue to irresponsible individuals, who, naturally enough, made it their duty to extort as much money as they could from the raiats. Having this end in view, they employed every means in their power to attain it. The farmer's chief officials were the Sudder Naibe and Naibs, on whom devolved the duty of fixing the annual assessments and collecting the Revenues. The annual settlement was made on the most primitive principles, the Sudder Naib assessing each pergunna in a lump sum, and the Naib distributing this sum over each village. The Patel and Patwadi in their turn apportioned the sum fixed on their village among the cultivators, and holding lands themselves, it was their interest to see that their own and their brethren's share was made as light as possible. Thus while the favoured few escaped with light assessments the main portion of the cultivators were ground down with inordinately heavy exactions. This inequality of assessments led to the impoverishment of most of the raiats. About 1264 Fasli the system of Revenue farming was abolished, and the State undertook to deal directly with the cultivators, the practice of assessing villages in the gross was discontinued, and a method of assessing each individual cultivator was introduced. These measures were, I need not say, highly beneficial to the raiats. The cultivator's tenure was now secure, and he did not live in fear of annually enhanced assessments. The area under cultivation steadily increased, and there was a proportionate enhancement in the revenue. In spite, however, of these improvements, much yet remained to be done. The fields had not been accurately measured; the soils had not been classed according to their relative values; and as a natural consequence, it followed that the assessments were very unequally distributed on the different holdings. From 1275 down to 1284, most of the Revenue officers continued to represent this state of things to

Government, and to urge the necessity of fixing equable assessments on the lands. Government sought to remedy these evils by having some talukas arreyed by Patwadis. But this experimental measure did not succeed in fact, it only made matters worse. The revenue efficers then urged upon Government the necessity of a regular survey and settlement, Government, therefore, finally decided in 1285 Fasii, upon starting survey operations without any further delay. Experimental operations were first commenced in the Patien taluka, and as they proved successful, the work was gradually extended to other districts. The following quotation from my Annual Report, submitted to Government in 1295 High; gives a chief account of the beginning of the work.

" As stated in the second paragraph of the Superintendent's Report, survey operations were at the outset, undertaken merely as an experimental measure, and on two different systems, with a view to ascertain by actual trial which was best adapted to this country. In some villages they were conducted on the principles prevailing in the North-West Provinces; while in others, the Deccan system was adopted. The points of difference between these two methods were carefully noted, and their relative advantages and defects minutely observed. My long and intimate acquaintance with the system in the North-West Procandidiy confess that if the matter had solely rested in my hands, I would have introduced it here in preference to that obtaining in the Deccan. But as the Government did not leave the choice entirely to me, but desired to see for themselves the results of both these systems before making a final selection, it was determined to inaugurate the survey in a few villages by way of experiment on either of these methods. This resolution having rendered it necessary for

me to juguice juto the principles of the Bouthay system. with which I was a portion stranger, I stock pains to study its rise and progress contained in the various slitle reports writion by the citied officers with whom the system in amesthe originated, and he the controversy which was carried West Provinces, and the Bombay Survey authorities. And not to rely on mere secondary knowledge and information. in obedience to Government orders, I travelled over the Poona, Ahmednuggur, Khandesh, and Akola districts, and made myself personally acquainted with the working of the survey in these parts. These inquires proved very nseful in the end, for they convinced me that the Deccan system was more suited to this country, and that the introduction of the other would not only be attended with serious consequences, but would revolutionize the whole system on which the administration of the land Revenue was carried on; because however suited the latter system might be to the North-West Provinces, where the zemindaree tenure is the prevailing form of occupancy, it would not answer in this country where the ryotwadi system prevails. Moreover, in fixing upon the Bombay system we would be following a sure guide, for it is now upwards of thirty years since it was first introduced into the greater part of the Bombay Presidency, during which period it has been attended with signal success. Ultimately, therefore, I recommended to the Government the adoption of the Bombay system, which they were pleased to sanction on an examination of the result produced by the trial survey. Our present operations are conducted on that system, with the exception of a few trivial changes in the minor details effected to suit local circumstances. It is to the adoption of this system that the success already achieved is mainly due, for it has saved us from many errors in to which it was easy to fall."

Upwarth of Initi of the Painn militar was surseport annisecond willages obscord, under my direct unprecision; houses I had a good upportunity of observing the working in densitor the Bunning Survey system, and forming my own judgement in the nation.

was not what it ought to have been. The work, for want of were kept in another form in Mahratta. The division of ing to rule. The work of erecting the boundary marks was very unsatisfactorily performed. The holders of land had been directed to construct their own marks, and as they had no time to spare from their own field work, they were naturally remiss in doing so. And thus weeks In many cases owing to the raiat's ignorance most of the marks that were constructed were not made to fall straight. on the boundary lines. Acting on the experience gained erect their own marks was discontinued, and the work was of upwards of a hundred villages were measured accordsurvey would not correspond with the maps got up by the British Survey, for this reason that their standard of It will thus be seen that we were beset with many difficulties in our first attempt in carrying out survey operations. We had no organised staff of trained measurers and supervisors, and it was a matter of great difficulty to obtain the services of trained men for the work. The following quotation from my Annual Report sent in 1295 Hijree deals with this portion of the sublice; 1

" It will be acknowledged that special qualifications are necessary in the officers, before accuracy and perfection can be ensured in survey and classification operations, and that it is not without considerable experience that good measurers and classers are made. Unless, therefore, we collect proficient and experienced men, the work cannot be expected to get on well. When commencing operations, we were able to obtain a few hands from Poona and elsewhere, but they were found wanting in the requisite qualifications and in local knowledge. But since Mr. Furdoonjee took charge of this Department. he obtained a number of qualified hands for the work, and Mr. Beynon also kindly furnished us with some competent men. But this slight accession of strength was insufficient for carrying on the work, and more officers were necessary. I, therefore, solicited the Government in my

letter No. 20, dated the 20th Rajab 1929 Hijres, to permit we to train men for the work, and they were pleased to sanction my proposal in letter No. 2129 of the 28th Shaval 1293 Hijree, and in the order of His Excellency the Minister No. 2190, dated 26th Shaval 1293 Hijree, In pursuance of these instructions the work of education was taken in hand.

" I adopted two measures for training men. The first was to give them a practical knowledge of the working of the Revenue Survey, by sending them to the actual spot when the operations were being conducted, under the supervision of Mr. Furdoonjee. The second was to impart to them a theoretical knowledge of the work, for which purpose I established a school at Hyderabad which I personally superintended. In establishing this school, the main object in view was to induce the sons of noblemen and of the wealthy middle-class in His Highness' territories to undergo a thorough training in the work of the Revenue Survey, for it cannot be gainsaid that the subjects of His Highness have greater and more immediate claims to the service than foreigners, and that it is the duty of the Government to qualify them for the work by training. Of the men trained under the Superintendent, some belonged to the Roorkee College, and some had served either in the North-West Provinces or in the Punjab Surveys. These men required no theoretical knowledge of our system; all that was wanted was an acquaintance with the rules and regulations in force. Others, indeed, were quite new to the work, but they passed their examination creditably, and were placed in charge of measuring establishments. I have every reason to hope that of the men now being trained, nearly two-thirds will be able to pass the necessary examination. As regards the training school of Hyderabad, the inducement of getting a monthly salary attracted at first nearly three hundred students to the establishment, but most of them could not long stand hard work, and their names had to be struck off the roll, owing to intergellar attendance and idle habits. Of the resulting, nearly eighty students were able to pass the necessary examination, and were presonned qualified for service. A few students were sent up to your (Sadar-col-Mahauré) office for examination, and the result was satisfactory, as in your letter No. 696 of the 28th Rabisani 1294 Hijres, to the address of His Excellency the Minister, you state—'The attendance were examined by us, and it gives us much pleasure to state that the knowledge they had acquired of their work in a surprisingly short period was highly creditable to the teacher, and afforded ample evidence of the pains that had been taken in their training. The students can read and write Mahratat very well, and the progress they have made is highly creditable.' His Excel-lency the Minister, in his reply, conveyed in his letter No. 710 of the 5th Jummadiavel 1295 Hijree, wrote as follows:—

"" Undenstelly the acquirements of the pupils hear conclusive testimony to the care and pains that have been bestowed on their studies by the teachers, Still it is essentially necessary that the pupils themselves should also evenice the livelise futerest in their studies, and if this is done the pupils and the teachers will be deserving of the hickest peake.

"It is with 'faelings of recret that I have to record that the people of this country are, by their natural disposition, usuaited to serve in this Department of the Public Service, the reason lying in the fact that their insideant and sedentary habits make them until for the hard physical exertions which a surveyor has to undergo almost every day. Those of them who have qualified thems-adves for the task turn out a very small quantity of work, is comparison with what their benthera from other parts of

the country accomplish. Complaints are constantly received on this head from the Superintendent and his Assistants. It will be observed from Mr. Beynon's diary, that he too expresses doubts as to whether the men who are being taught will make hard working surveyors. The sane kind of complaint is made in Mysore and in several other places. It will, I am afraid, be long before the inhabitants of this province can bring themselves to work as hard as the Brahmins of Dharwar or Khandesh, or the natives of the North-West Provinces."

I would here briefly define what the powers of the Commissioner and the Superintendents are, and their official relations to one another. The Commissioner submits his ed for each survey under different heads. Once the budget is sanctioned, the Commissioner has power to divert the sums sanctioned for one head to another head, so long as he does not exceed the total sum sanctioned for each survey. The details of all administrative arrangements exercises control are left to the Commissioner. Owing to diversity of circumstances, a certain method of practice in one survey may be found unsuitable in another survey, and as the Commissioner is the best judge of these matters, he arranges all details as seem to him best suited to the state of the country in which the survey is working. The internal management of the survey is left to the discretion of the Superintendent. The appointment of assistants and sub-assistants rests with the Commissioner. but as a rule the Superintendent nominates them, and sends up their names to the Commissioner for sanction. As these officers have to work directly under the Superintendent, who is the responsible head of his survey, it is necessary that he should have a voice in the appointment of his subordinates. With the exception of the assistants and sub-assistants, the appointment of other officers in the different branches of the survey resis entirely with the Superintendent. With the exception of the Aval Carkoon, the appointment of the office establishment resis with eaassistant in darge. Confirmation of the Superintendent is required to the nomination by the Assistant of any measurer or classers.

As regards the office routine work, and the manner in which the survey work is carried on, I cannot do better than quote here from the diary kept by His Excellency the Minister during his visit to Aurangalad in the year 1880; in his diary of 17th January of that year His Excellency asy:—

" At half-past one this afternoon I went for the inspection of the Revenue Survey Office. In this office there are two different establishments, one under the Superintendent himself, and the other under his Deputy. Besides exercising general supervision over his own and other office the different measuring and classing establishments. To the Deputy is entrusted the supervision over the accounts, dent himself cannot directly send for any sums of money from the Treasury, nor can he make any disbursements of money, except through his Deputy. The former merely issues the necessary orders, while the latter executes them. Owing to this system, regularity and accuracy are ensured in the accounts, while the work in the stores and mapping branches is carried on with efficiency. I first examined the work that is done under the Superintendent's direct supervision. Mr. Furdoonjee Jamshedjee, the Superintendent, submitted to me all the papers relating to one of the villages already surveyed, by the aid of which he explained to me all the details connected with the operations of measurement and classification in a most lucid manner, enabling me to form a clear conception of all that is done from the time when measurements are commenced to the time when the appearant is made and declared.

"The work in this Department is carried on in the following manner:-

" Each division is placed under a superintendent, who has a staff of assistants under him. Each assistant, placed in charge of a measuring establishment, has a deputy with 25 to 36 measurers; if in charge of a classification establishment he has a deputy with from 12 to 20 classers. In three Carkoons (Mahratta clerks) and four peons. The establishment under these assistants are named alphabetically, being called the A, B, C, &c., Establishments. performed to the assistant in charge, and the latter reports weekly to the Superintendent, who forwards his diary as well as those of his assistant's to the Survey Commissioner, and this official is thus enabled to supervise the whole of the work done by the Superintendent and his subordinates. I have examined the different diaries, from the measurers' upwards to the Superintendent's, and I have come to the conclusion that this rule has been strictly observed since the very commencement of the work. The diaries of every officer are bound in a volume, and carefully kept to be shown to any superior officers who might wish to examine them. The system of keeping diaries is very useful, as it is a check upon idleness among subordinates, who are thus compelled to be industrious, and to give true and unexaggerated account of every day's work. When it appears from these diaries that any subordinate has not executed his work in a satisfactory manner, or has been unpardonably idle, an explanation is at once called for, and should such explanation be deemed unsatisfactory, the offender is fined, and on a repetition of the offence dismissed. In addition to these checks, superior officers while on tour make a careful inspection of the diaries of their subordinates and test their correctness. For example, a measurement is checked on the spot by an assistant or deputy assistant, and the diaries of the latter officers are again checked by the Superintendent during his tour, and the result reported to the Revenue Minister, who submits the whole to the Minister. From the foregoing it will be seen that the whole of the members of the Department, from the highest to the lowest, are exemplied to perform their dility.

"I desired some of the diary files to be produced, and found on careful examination that this portion of the system is so excellently conceived and carried out, that it is impossible for faults of any description, either departmental or personal, to remain unchecked. The Assistant Survey Commissioner travels over the districts for eight months in the year. This officer, Mr. Aga Shaikh Mahommed, makes a careful inspection of the works of the superintendents and their subordinates. * * * The Survey Commissioner himself has also expressed his high satisfaction with this gentleman's work. His reports are forwarded weekly to the Survey Commissioner, and they are those of a thoroughly independent official. It is a matter of satisfaction to me to notice that this officer discharged his duties with great zeal and ability during his tour through the whole of the division last year. He examined the work performed by the majority of the establishments, and from his reports I am satisfied that the work generally of the whole Department is carried on satisfactorily and honestly; that the whole of the officials whom he has examined from the highest grade to the lowest deserve great credit for performing their work with zeal and ability. Any misbehaviour or want of attention on the part of any of the officers is enquired into in the most satisfactory manner.

"The work of the Survey Department is also frequently supervised by the Revenue Minister and the Minister ing and passing any immediate orders upon them, which ment is kept well informed regarding the progress of works are checked and set right. The assistants are again checked, and any errors discovered are at once corrected. On examining a few of the test plots of the assistants produced by the superintendents, I was satisfied that the above rules were strictly observed. Mr. Beynan, the Survey Commissioner of the Berars, checked the classification of the three Talukas in the district and found the results to be accurate."

Herewith I append a statement showing the cost of the Superintendents, and establishments, their Deputies and establishments and the measuring and classing establishments:—

2	Įn	ORT	H-W	ESTE ION.	REN		West	TERS	1		
Seria Number	OFFICERS.	Officers.	Pay and Allowances-	Total	Amount.	Officers.	Pay and	Total	Amount.	Gra Tot	ed d.
1	5	3	4		5	6	13		8	3	•
3 4	Superintendent Munshees, Persian Department Tuncké Sor and Mahratis Cor- Jonathandi Sherishtedar and Carkoons, English Writer Medical Department Habment Hebment Peons and Lascars	1 4	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.38	10 0 11 11	1 1 1	150 139 250 150 150 93 265 127	23,546	3	h.798
9 10 11 12 13 14 15 16	Deputy Superintendent Head Accountant and Retat Inhment Franch, and Granch Gran and Mahratta. Establishment for Stores Record Establishment. Mapping Department Perinting Department Peons, &C.	111111111111111111111111111111111111111	1	90 99 31 88 80 900 120 163	18.70		1 7 6 4 4 4 15 16 9	258 258 153 220 100 275 243 80	20,60	20 11	10,336
17 18 19 20 21 25	lishment Learners at 1 per each Estalishment Peons at 6 per each Establisment THREE AND A HALF MEA- BURING ESTABLISHMENTS	ib-	3 9 10 1 12 18 05	193 193 1,440 114 13,537	42,	441	2 6 44 10 8	580 330 124 968 100 72 2,174	36,	088	68,532
MONTH STATES	Sub-Assistants Carkoons at four per Establi ment Measurers	lah-	5 15 12 12 16 16	825 291 2,240 96 128 5,040			3 15 190 11 11 170	296 2,100 140 120 4,525		,331	111 801

system and that prevailing in the Berar Survey. In Berar they had from 20 to 22 measures and from 12 to 15 classors lishment, under an assistant and sub-assistant. Seven better than the one prevailing in the Berars, and I would strongly recommend its continuation. The reasons for my preferring this system are as follows :- Whenever an assistcarry on his duties, and being trained to the work and

When once the survey operations had been fainly started

and a few talukas had been measured and classified, I work done should be checked by some able and experienced officer of the British Revenue Burvey. Accordingly, at my request, the services of Mr. Beynon, Superintendent Berar Revenue Survey, were obtained from the Resident by His Excellency the Minister. From about the end of November, 1877, until about the beginning of January, 1878, Mr. Beynon travelled over the Aurangabad District, and in some of the Talukas, including Paitan, where the satisfactory, as will be seen from the following extract from the concluding portion of M. Beynon's diary :-"It is only necessary for me to add, in conclusion, that the work has been carried on exceedingly well. Our has the difference in measurement amounted to three per cent., while in classification the difference has in no case amounted to two annas. The mounds and stopes have office records in all branches are neatly and carefully kept, being deserted by famine, and at the same time the expenditure has been reasonable." Speaking about the cost of the Survey Mr. Beynon says :- "The total cost for the the small pay of the Superintending Officers, the low rates (about one half) paid for bounary marks, and also to the fact that flagholders and chainmen receive no payment, the cost per acre was much less than in Berar. The cheapest rate at which the work was ever done in Berar was in the season 1862-63, when the cost per acre was

2 annas 3 pie, and that was when the boundary marks were erected by the villagers and not by contract, while latterly the cost per acre was generally over 3 annas, while the cost of the Aurangabad Survey last season was only 1 anna 111 pies (British) per acre." As regards the rates at which contracts for the erection of boundary marks were given out, Mr. Beynon writes :- "The total expenditure on the boundary marks last season was Rs. 1,18,779, of which Rs. 79,186 were spent on mounds, and Rs. 39,593 on stones. The contract rates were Halce Sicca annas 5-4* for mounds and 6 annas for stones, these rates are very into in Berar, where the rates were Government annas 10 and annas 6 respectively." I would here state that about the year 1288 Fasli, owing to the scarcity of labor prevailing upon the cheapness of grain, the rate per eartheu mound was increased from six annas to six annas six pies.

At first sight it would appear as if these rates were somewhat high, but then it must be considered that the contractors have to get their labor from great distances in the British territories. Then again the work is scattered over great distances, over portions of so many hundreds of fields in different villages at one and the same time, which involves a great amount of supervision. Besides employing "a large agency for supervision, the contractors have to apend a large sum in the purchase of tools; they have to give securities, and they also have to make advances to the laborers they import, and in many cases they lose money if the latter abscond.

One year I invited tenders for the construction of boundary marks, and a few applications at lower rates than we were paying were received. I could not, however, trust the applicants to carry on the work satisfactorily, and so I rejected the tenders. If the contractor is new to his

duties, and has not had experience in organizing and distributing the required labor, his work is naturally retarded, and this delay has a detrinental effect on the work of a hundred and odd measurers in the different establishments, disorganizes the system on which they work; and causes a heavy loss to Government. Even with the experienced contractors we have, delays occur at times, when the contractors are fined in a certain fixed sum for every day's delay. At times when stones are not to be procured near the spot, the contractors have to get them either on earts or donkeys from distances of twelve and fifteen miles. In the Telengana country, where any amount of stones can be had, the rates are very low, less than half

But while quoting from Mr. Beynon's diavy all that he said in praise of the work done, I must not omit to mention the one fault he had to find in our system of testing. In his diary of the 2nd January, 1878, he writes —

"With the large number of measurers at present attached to each catchilhament, a large amount of the testing has necessarily to be left to the Nintandars or testing Carkons, as the assistant is not able to do the whole of it himself, and there is consequently a natural tendency to throw the chief portion of the testing on the former. I think, therefore, it would be more satisfactory if the measuring establishments were reduced to an average of about 22 men cach, which is considered a fair complement in Bombay and Berar, and let the whole of the work be done by the assistant himself. If the Bombay or Berar Progress Reports are consulted, it will be seen that hardly any testing by native agency is allowed, on an average not more than one or two tests per establishment during the whole season, and these only in very exceptional cases when circumstances have prevented the assistant from taking the test himself. I observe that some of the mea-

[&]quot; This is a mistake ; it was six anna.-M. A.

surers newly appointed draw only Halee Sicca Rs. 10 and even Rs. 8 per mensem ; considering the work they have to do this is too little. In Berars 'Shiknars' or learners. received Rs. 8 and Rs. 10 (Government), and articles of consumption are much dearer now than they were formerly. On being appointed to a village, a measurer received Government Rs. 12, and after six months if his work turned out well, he was entitled to an increase of Rs. 15, and after that his pay was raised by periodical increments of Rs. 40. In Berar there were three peons attached to each establishment on Rs. 8 per mensem, while here there are four, the additional one being required for the "Nimtandar.' The peons draw Rs. 7 H. S. each, being an aggregate of Rs. 28 per establishment; if the establishments are erganized as they were in Berar, the Nimtandar being abolished, it would then only be necessary to retain three peops, and in that case I would suggest that their pay be increased to Rs. 8 each or Rs. 24 per establishment. It is evident that men in the position of measurers and survey peous have numerous opportunities of extorting money or provisions from villagers, and it is difficult to find fault with them unless their pay is such as to raise them above want; if their pay is sufficient they can have no excuse."

I would here explain that when we first started work we had no trained agoney for testing. Our Assistants had to be trained to the work, and being new to it their manner of work was rather alow, and therefore they had testing Carkons to assist them. Had it in to been for this measure, the Assistant alone would never have been able to do all the testing work himself. But directly the Assistants acquired experience in the work, the testing Carkons were done away with in the later part of the year 1378. We have not a single testing Carkon now, all the test work being done by the Assistants and Sub-Assistants themselves, and I believe the precentage of testing Good by them in

cuch establishment is a little higher than what obtained in the Berar Survey. As regards the suggestion scale by Mr. Beynon with respect to the salaries of the measures, I would observe that sening upon his advice, I resied them, I award to measurer is now employed on less than Br. 12 per memers. In January of the year 1880, His Facellenoy the Minister visited Aurungabad, and a little here he was joined there by the Reident, Sir Richard Mande, Colond Bell, Judicial Commissioner, Berar, and Major Trever, First Assistant Resident. His Revellenoy impected all the records of the Revenus Survey Offices and personally tested to measurement and classification of a few fields of the village of fluracol. In the foreign pages of this measurement and classification of a few fields of the village of fluracol. In the foreign pages of this measurement and classification of a few fields of the village of fluracol. In the foreign pages of this measurement and classification of a few fields of the village of fluracol. In the foreign pages of the measurement and classification of a few fields of the village of fluracol. In the foreign pages of the measurement and classification of a few fields of the village of fluracol. In the foreign pages of the measurement and classification of a few fields of the village of fluracol. In the foreign pages of the measurement and classification of a few fields of the village of fluracol. The foreign pages of the measurement and classification of a few fields of the village of fluracol.

"Having seen the Harsool Seral I went to the field I had selected, and had it measured in my presence. All offshoots, bases, boundaries, and perpendiculars were measured by means of a cross staff and chain, without the slightest mistale. The results were reduced to writing thes, and they were found to tally exactly with the field book and may present in the Settlemen Offshoot.

"This satisfied me as regards the correctness of the servey. Having accomplished this, I returned to Camp, it being too warm to go any further. At 2 o'clock went to the field which Mr. Fitch had measured by means o'll reducible. He remeasured it again in my presence. But since the results of the measurement could not be known at the time, I requested Mr. Fitch to forward them, when reduced, for my information. On mysawy back to Camp went to the piece of land I had selected for classification. Four officers acquainted with this branch of the survey work, good whom was Seed All; the Geologist,

went through the process for me. They dug the field which was of 12 acres in twelve different places, and in my presence examined the soil according to the rules laid down for classification. I was glad to see that the result of their several examinations were correct, being exactly the same as formerly arrived at by the classers. In my opinions the work of classification here is done properly and accurately. On my return to Camp Mr. Fitch showed me that the result of his remeasurement by Theodolte, and that taken by cross staff and chain were casedly the same, there not being the difference of even one per cent. between them, This proves the great accuracy of the work. "

On the 28th of January, the Resident, Col. Bell, and Major Trevor, visited the Survey Offices in company with His Excellency, and the record of their visit is thus mado in His Excellency's diary of that date, which I quote here:—

" After two o'clock in the afternoon the Resident, Colonel Bell, and Major Trevor paid a visit to the Settlement Office, the Revenue Secretary, Moulvie Mahdi Ali, prefaced the inspection with a brief account of the reasonswhich had induced His Highness' Government to undertake a Revenue Survey and Settlement, and to prefer for that purpose the system in force in Berar. Six months, he said, had been devoted to making trials of the different systems pursued in the N. W. Provinces, Bombay, and Berar respectively, and at last the system pursued in Berar had been adopted as the most suitable to the circumstances of the country. He then explained how men had been trained for the work, producing the examination papers, by which candidates thus trained had their knowledge tested, showing what pains had been taken in training them. With the exception of 95 Mozenidars and classers one Muddudgar or Assistant Settlement Officer, the entire staff had been trained in this country, and consisted of all classes. Mahomedans, Parsees, Brahmins, and others. The Settlement Officer, Mr. Furdoonjee, then submitted the survey and classification papers of one village, which were declared to be perfectly regular and correct by Colonel Bell. The work done by Assistant Settlement Officers was then examined, the manner in which they checked survey and classification operations, and filled up returns of their part of the work, showing that since operations were commenced, complete records of supervision, and forms and returns of regular orders have been kept in the files of the Settlement Officer. The manner in which checks and counterchecks are provided, from the survey up to the Sudder-col-Maham, was then explained to the visitors and the daybook was shown. The statements showing the work done up to the present moment, and the cost of it, were then laid before the party, and the Resident expressed his approval of both. The Assistant Settlement Officer's office was then visited, where the method of keeping accounts and the work done in the godown (for apparatus) were exhibited to the visitors. I have seen them before and recorded my approval of them in my diary in the entry for 25th Mohorum (8th January 1880). Like me, the Resident, too, was pleased with what he saw, and said to Furdoonjee that he thought the work done was satisfactory."

The following copy of a note from the Resident to the address of His Excellency the Minister will show that Sir Richard Meade was very much pleased with his inspection of the Survey Offices:—

AURANGABAD, 29th January, 1880.

MY DEAR NAWAB,

Now that I understand we have finished all that your Excellency wished me to see in connection with the affairs here, I think I may assure you in this way of the very great gratification that has been afforded me by this opportunity of observing their condition and working.

The state of the buildings and the general character of the manner

ps which the work is carried on, so far as can be gathered from alf that came before me, are in every respect excellent and reflect much credit on the officials in whose hands the control of the same laws

The work and records of the Survey Department appeared to me to be admirable and to leave nothing to be desired, and the care that has been bestowed on everything connected with this Department was very striking.

The settlement operations are of course quite distinct from the survey work, but I gathered that they are being conducted with-equal care.

I will only add that the state of the offices is worthy of the grand city in which they are located, and that it was a real pleasure to visit them.

Altogether I cannot thank your Excellency too heartly for the great treat you have afforded to Lady Meads and myself by this most interesting visit to Aurangabod and its charoling surroundings. All our party will carry away with us most pleasant memories of this trin.

Believe me,
Yours very sincerely,
Signed) RICHARD MEADE.

I will now proceed to notice the difficulties the surrey had to contend against at the outset, and will briefly nois the obstacles that are even now met with. It was not to be expected that the reditary village officers who hold a great part of the lands of each district at very low, and sometimes nominal rates, and petty revenue officers who sequire little again at every names settlement, should look upon the survey with a favourable dye. And it is fasily conceivable that this large body of officials should incire Thislidars, and other revenue officers, to a spirit of passive resistance. As anticipated the survey met with a certain amount of opposition which was gradually removed by the method I sadopted of recommending Government to promote those Tebsildars who assisted us, and to punish receditions.

districts. Owing to the position I hold as Reseaue Sectury, besides being Survey Commissioner, I was enabled to secure the oc-operation of the Revenue authorities; and I may, in great measure, ascribe it to my personal influence that such co-operation was extended to the survey. In spite of all this, the opposition made itself felt in several ways. For instance, one or two district officers, knowing very well that survey operations were shortly to be started in their districts, attempted to forestal us by getting a rough survey of the district made by the village Patwadis, and by raising the assessments on lands centerally.

Here I would mention one important work which has been done by the Revenue Surrey in the Aurangabad, Beed, and Parbhaini Districts, and that is the settlement of long standing Boundary disputes, which have been a frmitfal source of quarrel among the raints of the villages in which they existed. This is what His Excellency the Minister is pleased to record on the subject in his diary of the 17th January.

"As regards the decision of the Boundary disputes, the total number of disputes which have arisen since the formation of the Department is 40%; of this number 127 were in respect of Jagner and Government lands, and 281 between Government body, and 281 between Government villages. Of the first-mentioned class 117, and 272 of the second class, have been settled, and 19 are pending settlement. Thus, altogether, 389 have been decided; rad the decision carried out. Of the lands in dispute 9,481 beegas of Jagcer land came to Government, and 0,172 beegas went to the Jagcerdars. The Boundary marks have been creeted in accordance with the decisions given. Even the Jagcerdars who have had to make over hundreds of bigas of land held to belong to Government, have cheerfully helped to carry out the decisions, and have made over the lands to Government. The settlement of

these disputes is, I consider, one of the most difficult duties of the officials of the Department, and they have exercised considerable judgment and discretion in deciding them. It is a matter of considerable difficulty to settle satisfactorily dispute between Jager holders and the Government, as the former not unfrequently annex portions of Government lands, and refuse to appear when the matter comes on for heaving; oven when they do appear, and the matter in dispute is settled, they refuse to allow the cretion of Boundary marks upon their lands. Such disputes not only entail a loss on Government, but occasionally lead to bloodshed, and criminal cases also arise from the same cause.

"There have been several examples of this description in His Highness' territories. When the decision of these disputes was entrusted to the Revenue Survey Department, the same difficulties were encountered, but the vigorous action of these officials overcame all obstacles, although in some cases of opposition they were obliged to adopt strong measures, and sometimes the aid of the Police was called in. Eventually all such disputes, many of which had been pending, some indeed being over half a century old, were settled to the satisfaction of either party. In the course of these investigations, it also came to light that the complaints generally made to Government by the Revenue officials regarding the Jageerdars are not always free from exaggerations The Patels, Patwaries, and cultivators belonging to Government villages also in some cases are not entirely free from blame. The peaceful settlement, however, of the boundary disputes in this district is sufficient to prove that when Government officials give their decisions with impartiality and discrimination, the Jageerdars willingly meet them half way and abstain from further dispute. On the whole, the officers of this Department are entitled to much credit for having arranged such difficult and delicate matters satisfactorily. The thanks of Government are also due to Jageerdars who have helped in the settlement of these cases."

Much good work in the way of the settlement of these boundary disputes had been done, and was still in progress, when about two years ago orders were issued by the Revenue Minister to the effect that whenever disputes were settled between a Government village on one side and a Jageer village on the other, and when any portion of the disputed land was given to the latter, the Superintendent's decision in the case was to be sent up to Government for sanction. It was pointed out, at the time, to the Revenue Minister, that this procedure was opposed to the practice prevailing in the British surveys, especially in the Berar Survey, and that it would involve considerable delay, in the preparation of the village and taluka maps. The Revenue Minisconsequently, latterly, these decisions have been sent up to the office of the Revenue Minister for sanction. In nine cases out of ten, the papers in these boundary dispute cases are returned for further enquiry, and various explanations are called for. Now this careful sifting and weighing of evidence, the institution of minute enquiries on every point connected with the case, the examination of documents which generally are where there is not only a trained agency provided to do the work, but where the statute of limitation applies as a bar against the adjudication of cases which go beyond a certain period of time. But in the survey we have to work with individuals who are excellent measuring officers, but who make indifferent judges, and we have to inquire into disputes which in most instances are upwards of half a century's standing. It will be seen from the following extract made from the well known joint Survey Report, that the

founders of the Bombay Revenue Survey thoroughly understood this difficulty :—

"All the more important of these disputes are of long standing, and, in the majority of cases the land has been waste from time immemorial, and rendered of little value to any party by having been converted into a contested grazing ground for the cattle of the several villages claiming any part of it. There is generally no evidence whatever in proof of the original limits, beyond a few vaque entries in some of the old village papers which, even if we could depend upon their authenticity, cannot be relied on as affording a true statement of the extent of the dispute at the time they were written; since it was frequently the interest and practice of the village accountant to enter the dispute as larger than it really was, in order to obtain from Government a corresponding deduction from the rental due from the village.

" Such being the case, it seems aiming at impossibilities to attempt to restore with exactness the original boundaries, and any expensive or elaborate investigations having this object in view would prove labour in vain, and would, by investigating the case with undue importance, be found to strengthen the animosity of the contending parties, and to excite on both sides a renewed desire for victory; so that the very elaborateness of the means taken to secure a just decision, instead of promoting that end, would seem to raise an additional barrier in the way of satisfactory settlement. The less importance, therefore, attached by the authorities to these disputes, the more readily will their adjudication he effected and acquiesced in. Moreover, the partition of the disputed land, however made, can hardly fail to confer a benefit on all the parties interested by enabling them to bring their assigned portions under cultivation, and to obtain a certain and often valuable return, in place of a contested pasturage shared by all, and conferring little benefit on any."

After this, I need not say that it is "aiming at impossibilities" to attempt to administer true justice in these matters. The Assistants and the Superintendent who are on the spot, who generally personally inspect the disputed boundaries, and who can judge of the truthfulness or otherwise of the witnesses by their behaviour when giving evidence, are in a much better position to arrive at a correct judgment in the case than officers at Head Quarters who have to base their decisions only upon what is recorded in the papers. It is simply a waste of time to raise nice points of law, to sift and weigh conflicting evidence, and to scrutinize documents which bear no mark of authenticity, in a dispute which is perhaps of a hundred years' standing. Then again it should be remembered that we have powerful Jageerdars to deal with, who may have held possession of the disputed land for a number of years. In dealing with such cases, it has been generally found desirable by tha Survey officers to effect a kind of compromise, when the evidence was conflicting, by giving a portion of the land in dispute to the Jagoerdars, and thus bring a long and unprofitable dissension to an end. This mode of procedure has been found to answer more effectually than that which was usually adopted by Revenue officers before us, merely to record decisions which were never executed, which resulted in interminable correspondence, and which were a fruitful source of contention between the raiats of Government and Jageer villages. If the returns in connection with the boundary dispute settlements are studied, it will be found that something like 65 per cent. of the land in dispute has been given to Government and only about 35 per cent, to Jageerdars. It will thus he seen that the Government have gained considerably and have also the satisfaction of having

many long standing disputes of this nature brought to a termination. At present the orders of the Government are that where the evidence is conflicting on both sides, no benefit is to accrue to the Jageerdar from it, but that all the land in dispute is to be given to the Government. In cases where the Jageerdars are in possession of the disputed lands, this ruling operates very prejudicially to them, and it is difficult to induce them to admit the justice of it. With all due deference, I would respectfully observe that the orders on this head are not judicious, and are calculated to cause friction between the survey officials and Jageerdars, which will result in the latter preventing the boundaries from being laid down. This will not only lead to constant references being made to Government, but will cause great delay, than which nothing is more detrimental to the successful carrying out of the survey operations.

The following statement will show in detail the number of boundary dispates that arose from 1285 down to 1290 Fash; the number of cases decided (1) between Government villages only, and (2) between Government and Jageer villages, and the number remaining to be decided at the end of the year 1290 in the North-West Division:—

ng un-		Total.	200	: : : : 1	12
ainh d at the	Be	tween Government id Jageer Villages.	21	:::2	12
decide and of	Between Government Villages only.			111"	t-
		Total.	19	188 142 108 103	541
	TOTAL.	Between Government and Jageer Villages.	18	39 88	504
	T	Between Government Villages only.	17	102 84 69 82 82	337
		Total.	16	1. 14 103	118
	1290	Between Government and Jageer Villages.	15	1 : 1 2	80
ei		Between Government Villages only.	14	:: 00 00	85
NUMBER DECIDED.	-	Total	13	8 5 :	132
	821	Between Government and Jageer Villages.	12	2 28 :	26
NUN	Between Government Villages only.		=	10 99 ::	92
-	Total. Between Government and Jageer Villages.		10	112 106	118
			0	32 : :	42
		Between Government Villages only.	00	2 47 : :	26
		Total.	1	173	173
	1881	Between Government and Jageer Villages.	9	13 : : :	73
		Between Government Villages only.	10	100	100
LED.	T	Total.	4	188 142 108 122	260
ES FIL	В	stween Government and Jageer Villages.	00	38 88 88	216
DISPU		Between Government Villages only.	02	102 84 69 89	344
No. or DISPUTES FILED.		Fasli Year.	1-	1287 1288 1289 1290	Total

From the foregoing statement it will be seen that no less than 560 cases of boundary disputes were taken on the file, and of these as many as 644 were settled, leaving only a small number of 19 cases undecided at the end of the year 1290. I need not say that these results are very satisfactory and very creditable to the survey officers.

As many as 204 cases were decided between Government villages on one side and Jageer villages on the other. The land in dispute amounted to 26,784 acres; of these 17,429 acres or 65 per cent. we regiven to Government, and 9,355 acres or 55 per cent. to Jageerdara.

As numerous boundary disputes existed in the Western Division, and as we had to deal there with powerful and often obstreperous Jageerdars, it was considered desirable to appoint a special boundary dispute settlement officer, with a few assistants under him, for the settlement of these disputes. Mr. Hormusji Bapuji, who had served in one of the Revenue Surveys under the British Government, and who had for some time received a training in the Auranghad Survey, was appointed settlement officer with about seven Assistants under him. The work done by this Department has not come up to my expectations, and I intended abolishing it at the commencement of the next official year. In the first place the Jageerdars proved very obstreperous, and acted in open defiance of Government orders, and in the next place (I have to record this with regret) Mr. pected from an officer in his position. The consequences were that comparatively few boundary disputes were decided as compared with the machinery employed and the

The following statement will show the number of disputes taken on file and the number settled in the Western Division, by the Department presided over by Mr.

		REMARKS.	17			
				1	127	7
d the		Total.	16	177		304
o. remaining undecided the end of the year.	.vo	Between Jageer and cannient Villages	15	176	127	308
No. un	que	Between Governme Villages only.	14	-	:	
8.		JasoT	13	220	73	298
Total Cases Decided.	-vo5	Between Jageer and evninent Villages.	12	186	73	259
For	3U	Between Governme Villages only.	11	3.5		34
	Total		10	7.4	73	147
"d	gi qua	Between Government and Jageer Villages.	6	7.4	73	147
Decide		Between Government Villages only.			:	1
Number Decided.		.fatoT	20	146		146
Nar	1289	Between Government and Jageer Villages.	9	112		1112
		Between Government Villages only,	10	34		3.4
Dis-		Total	4	397	200	597
Number of Dis- putes Filed.	Between Government and Jageer Villages,		00	362	200	562
Numi	1	Between Governmen Villages only.	65	35		355
		Year	1	1289	1290	Total

From the foregoing statement, it will be observed that out of 597 cases taken on file, only 293 have been decided, and as many as 304 cases have been left undecided. I may here state that nearly half of these undecided cases have been seat up by the Assistants for sauction to the hong-dary actitement officer, and most of them have been returned to the former by the latter, either for forther inquistes, or for explanations on different points. In justice to Mr. Hormsufg 1 mass mention that this delay is in a great measure due to the obstacles placed in his way by the Taxanchez consequed with the second

The following statement will show the number of disputes. taken on file, and the number settled in the Western Division by the Survey Assistants:—

		Total.	33	1 82
CASES UN. DECIDED.		Jageer	22	
CA		Khalsa.	30	13
		Total.	19	\$0208
	Total.	Jagoor	18	80
		Khalea.	17	124
4	-	Total	16	10
	1200 Fash.	Jageer.	15	59
	31	Khalsa,	14	17
	Casts Dactorn, 1288 Fasit. 1289 Fasit.	Total	13	62
ECIDE		Jagoor	12	00
SES D		Khalsa.	11	10
O		Total	10	82
		лакееп	0	20
	21	Khalaa.	00	3
	=	Total,	-	00
	1887 Fasil.	Jakgeer	9	
	81	Khalsa.	Q.	00
10.		LatoT	4	217
CASES FILED.		Jageer.	00	80
CAS		, Khalsa,	64	187
		Eash Year.	-	F10m 1287 to 1290

From the above statement it will be seen that in all 217 cases of boundary disputes were taken on file, and of these 204 were settled, leaving only 13 cases undecided at the end of the year 1290, which is yery satisfactory indeed.

Having in the preceding pages gives a brief outline of the circumstances under which the Revenue Sourcey was first started, and the manner in which the work was, and its now, conducted, I now proceed to give an account of the results attained.

From 1285 down to 1200 Fasil, the measurement well turned out by the two surveys in the Month Wastern Division amounts to about \$3,25,500 areas following table will afford detailed information as the head of the control of the survey of the control of the contr

Division:	No. of Villages Measured.	d. of Villages Survey Measured. Sundern.		
1	2	3		
North-Western	2,529	9,09,088	34253900	
Western	1,212	1,91,506	97,01,000	
Total	3,741	3,31,647	9130365	

I may here state that the measurement operations were started in the N. W. Division about the middle of the year 1985, and in the Western Division about the baginning of the year 1987. Hence the difference however, the two Divisions as regards the amount of week turned out.

During the present season, the amount of work turned out by the two surveys may be roughly estimated as follows:

SECRETARIO LIEN

The total measurement work turned out by the two

surveys, up to the season of 1991 Fasli, may therefore be set down at 98,20,844 acres.

In the North-Western Division, the Aurangabad and Beed Districts, and four talukas of the Parbhani District have been measured. In the Western Division, the measurement of the Naldrug, Bider, and Lingsugur Districts has been completed, and the work remains unfinished in one taluka of the Shorapoor District.

The following statement will show the number of fields and area submitted to test in each Division, down to the year 1290:—

Division.	No. of Fi	elds and ested.	on Meas	reentage urement ork.	Average Differ- ence between Measurement and Test per cent.		
	Fields.	Acres.	Fields.	Acres.	Acre.	Gunta.	
N. Western.	24,139	5,55,262	101	10}	1	1	
Western	12,940	2,95,748	10½	103		26}	
Totals	37,079	8,51,010	10}	10}		331	

The percentage of the fields tested in the two surveys is very satisfactory, being 104 per cent. of the total number of fields measured. The percentage of area tested in 104 in the North-Western and 104 in the Western Division. The average difference between original measurement and test is 1 acre 2 guntas in the North-West, and 2cg quutas in the Western Division. The reason for the difference being greater in the first than in the second Division line in the fact that in 1285, when the survey operations were first started in the Paitan Tallaks, the work done was not very correct, the difference between original measurement and test for that year being 29 acres. Hence the average difference in the North-Western Division is somewhat high.

The following statement exibits in detail the difference between the tests and original measurements:

Division.	No. of Fields in which the Difference between Original and Test Measurement did not exceed.									
	Under I	1 P. C.	2 P. C.	3 P. C.	411.0.	SMG	6 P. C. april			
N. Western	1,612 64 724 51	15,914 66 7,285 56 ¹ / ₄	5,581 23 4,392 34	625 24 398 3	217 1 75 1	308 90 1	80 *** 41 **			
Total	2,336 6±	23,199 624	9,973	1,023	292	128 ±	129			

The result shown is very satisfactory. The difference in the main portion of the numbers tested is only one and two per cent., and very few numbers go over fee per cent.

From 1285 down to 1290 Fasli, the classification work turned out by the two surveys amounts to 48,14,429 acres.

The following table will afford detailed information on this head:

Division.	No. of Villages Classed.	Survey Number.	Area classed in Acres.
North-West	1,750	1,51,197	35,33,596
Western	464	55,863	12,80,903
Total,,,	9,214	2,07,060	48,14,499

The work done during the present season may be roughly estimated at about 9,63,382 acres in the North-Western, and 7,94,322 acres in the Western Division. The total

classification work may therefore be set down at 67,87,548 acres.

In the North-Western Division the classification work of the Aurangabad, and all but one taluka of the Beed Districts has been completed. In the Western Division, the work has been finished in the Naddrug District, and classification operations have been started in two talukas in the Bidar District.

The following statement will show the number of fields and area submitted to test in each Division, down to the year 1290:—

Division.	No. of F	lelds and Tested.	age on	Class- Vork.	Average Difference between Measure- ment and Test per cent:			
	Fields	Acres.	Fields.	Acres.				
North-Western.	17,856	3,38,755	117	91	ø	0	0	
Western	8,225	1,50,979	147	117	0	0	61	
Total	26,081	4,89,734	12)	10	0	0	D.h	

The percentage of the flelds tested in the two surveys is very astifactory being 118 in the first and 144 in the second Division. I may explain that in the North-Western Division there are only two officers in each classing establishment, while in the Western Division there are three, hence a higher percentage of test work has been done in the latter as compared with the formor. The percentage of a state of the state

The following statement exhibits in detail the difference between the test and original classification:

	No. of Fields in which the Difference between Original and Test Cassottestoon was										
Division.	Rs.	From 1 Pie to 6 Pies.		From 011 to 015			Fam. 995 Service gas specialis.				
North-Western. Western	2,199 12‡ 1,399 17	57	23	1,077 6 444 5½	219 11/2 1005 2	Sadie.	11-11-11				
Total	3,598 13‡	14,742 56½	5,737	1,521	284 11	68	20 0				

The result shown is very satisfactory. We per sent of the numbers tested fall within two annes, and only two per ceat, go up to two annes and over. In the North-Western Division, the difference exceeding a name to piece the per cent; in the Western Division it is 22 per cent. This proves that the classification work has been most correctly and carefully executed.

The total expenditure of the two surveys, from 1285. down to 1290 Fasil, and on which the cost per acre of the survey operations has been calculated, amounts to Rs. 11,27,438-2. The subjoined table will afford the necessary information on this head, for details see Statement A appended to this Memorandum :—

	Column 8.		d	63	32	01	4	5.0	700	150
ni nw	penditure sho	0	of	20	01	01	01	01	0.5	01
xH ada	Cost per Acre of		Re	0	0	0	0	0	0	0
			St.	9	0	9	==	10	60	0
	rion		ol .	11	0	11	27	1-	0	01
asM as	o syntibusqxH latoT alO bus insmeyus	00	Re	28,910	1,02,196	2,05,217	2,54,120	2,76,989	2,60,003	11,27,438
			pi,	6	100	101	I's		112	1 00
	Cost per Acre.		el	-	0	0	0	0	0	0
			E.	0	0	0	0	0	0	0
3	-		gi,	00	0	0	60	(0)	10	10
100			od	1-	0	10	139	100	23	*55
CAN	Expenditure.	6	-	7,897	91	119	90	28	83	03
CLASSIFICATION.		0	Re	7,8	5,121	190,02	30,306	76,158	1,00,223	2,39,749
	Total Area Classi-		0	0	0	*	0	133	01	(4)
		10	Acres	70,569	1,68,758	6,99,013	8,04,869	14,43,050	16,37,219	82,48,14,439
-		-	D.	(D)	100	700	01	611		1 700
	Cost ber vere		ed	-	mil	rei	-	pes	-	m'
			Be	0	0	0	0	0	0	0
			d,	0)	0	9	00	01	10	10
EN			ef	00	0	23	15	0	6	00
MEASUREMENT.	Expenditure on the Area Measured.	"	Re	21.013	97,076	1,86,175	2,23,813	2,00,830	1,59,779	8,67,688
M		1	1 3	0	9	10	-93		14	1 00
	Total Area Mea-	at	Acres	1.92.709		17.91,503	20,29,407	30,39,524 1	13,27,605 1	81,82,946
	Pash Year.	1					1288	1289	1290	

From the foregoing statement it will be observed that the cost per acre of measurement operations amounts to 1 anns 8½ pies; of classification to 9½ pies; and the cost of the combined operations including settlement amounts to 2 anns 6½ pies per acre. 2 anns 6½ pies Halli Sieces amounts to 2 anns 2½ pies Government currency, which, I need not say, is very satisfactory. I may mention that the cost of the Survey Commissioner's office establishment amounting to Rs. 1,56,726 is not included in this; if it is, the cost per acre would amount to 2 annss 10½ pies per acre.

The total expenditure on the erection of boundary marks from 1285 to 1290 Patil amounts Rs. 12,37,420-6-8. Of this cost, the sum of Rs. 11,39,74-11-8 spent on greeting marks on occupied lands has been, and is being, recovered from the cultivators, and Rs. 55,457-11 expended on refleting marks on waste lands has been included in the cost of the survey. The subjoined statement will affeed detailed information on this head :--

TOTAL OF BOTH DIVISIONS.	01	Expenditure on Was	Re. n. p. Re. n. p. 22.220 4 51.14,730 0 1 22.230 9 02,86,601 0 5 5,711 2 03,10,801 3 3 1,000 14 63,30,602 10 9 4,166 19 92,54,103 14 9	457 11 012,37,429 6 3
TOTAL OF BO	24	Moundary Mark Expension of upocouple of upocouple dilute on occupie of the mark Mark Expension of the mark Mark Expension of the mark Mark Mark Mark Mark Mark Mark Mark M	Rs. a. p. 92,400 11 4 2 2,34,732 0 5 2 3,06,170 1 3 3,20,611 12 3 2,113,007 2 0	11,81,971 11 8 55,457
N.	1	Total Expenditure.	Rs. a. p e2,c36 15 43,114 4 40,601 12 97,441 5	9 188'88' 6
WESTERN DIVISION.		Expenditure on Waste	Bs. a. p. 10 10 3 174 12 61	185 6
WES		Houndary Mark Expen-	Rs. a. p. 62,626 5 3 (42,639 8 0 1,49,681 12 3 97,441 5 9	4,82,688 15 3
	×	-smilbneqxi laioT	Rs. a. p. 1,14,730 0 1 1,94,354 9 11 1,67,768 H 9 1,80,772 9 0	7,84,545 0 3
	NORTHERN DIVISION.	olasW so on Waste	82 24 25 25 25 25 25 25 25 25 25 25 25 25 25	55,272 4 3
Non	NOR	Houndary Mark Expon- diture on occupied Lands.	Rs. a. p. 92,490 11 4 1,72,105 11 2 1,62,230 9 3 1,72,525 12 3 1,22,525 12 3	7,39,272 12 0
		Fastl Year.	1 1286 1287 1289 1290	Total

In the North-Western Division, survey rates have been introduced in eleven taltiks of the Aurageabad District, and in one talkals of the Beed District. In the Western Division six talkass of the Nathrup District have been settled. The following table, abstracts from stationents C and C 1, will show the difference between the old rates and the survey settlement rates in each Division for the property of the contract of the survey settlement rates in each Division for the contract of the con

North-Western Division

	OLD RATES.		St	RVEY RATE	ø.
Acres.	Assess- ment,	Average Rate per Acre.	Acres.	Assess- ment.	Average Rate per Acre.
19,76,733	19,08,002	0 15 5	22,08,802	21,89,316	0 15 10

Western Division.

	OLD RATES.		SURVEY RATES.						
Acres.	Assess- ment.	Average Rate per Acre.	Acres.	Assess- ment.	Average Rate per Acre.				
7,08,933	7,30,212	1 0 6	9,91,584	8,40,104	0 13 6				

From the foregoing statement it will be observed that in the N. W. Division the surrey measurements show as increase, as compared with the old recorded area, of something like 9,39,060 acres or 11.7 per cent. In the same manner the new trace have increased the assessments by Ba. 9,31,314 or 14/7 per cent. It must, however, be noted that there is very little difference in the old and new rates as regards the average rate per acre, which is 15 annsa 5 pies, according to the old racks, and 15 annsa 10 pies according to the surrey rates, which gives as in-

crease of only five pies, which I need not say is very satisfactory.

In the Western Division, the survey measurements show an increase, as compared with the old recorded area, of 2,82,751 acros 798 Fp ercent. In the same way, the introduction of the survey rates have increased the assessments by Rs. 1,09,89 or 150 per cent. The old average rate per acre was Rs. 1-0-6, the survey rate is Rs. 0-13-6, It will thus beseen that notwithstanding the increase in the amount of assessments, the average rate per acre is much lower now than what it was before.

The two statements marked D and D 1 appended to this Memorandum will give detailed information as to the area of occupied and waste lands, with the average rate per acre, in each of the settled talukas.

The survey operations have not tended to enhance the revenues to any great extent, for this reason that the old rates of assessment had reached their maximum limits, and this did not leave much margin for any great increase. Our Talukdars understand the art of increasing the revenues by flxing heavy assessments, and so there was not much scope for increase left to the Revenue Survey. The progress the surveyed districts have made during the past twenty odd years will be seen from the two statements B and B 1 hereunto appended. A study of these statements will show that very considerable and substantial progress has been made in the agriculture of the district, as regards the number of cultivators and the cultivated area. There has been also a proportionate increase in the assessments. Hence the Revenue Survey did not in any way enhance to any extent the revenues, but it served the purpose, for which it was intended, of equalizing the assessments. I will quote on this subject from Mr. Furdoonji's Settlement Report of the Paitan Taluka :-

" 77. I would here observe that the increase of revenue

"obtained is not the result of any general enhancement " of assessment rates, but is mainly due to more accurate " measurements, by which an increase of 19,000 acres of " cultivated land has been attained over the cultivated area. "as shown in the Tehsil records. I would also remark that " the rates of assessment seem, in many instances, to have " been very unequally distributed in the Paitan taluka. I "will give an instance in point. The villages of Sioni and "Chincholi adjoin one another. According to our classi-" fication scale, the average value of the lands of the form-" er village is eight annas, while that of the latter is eight "annas and six pies. The difference between the value " of the lands of both villages is almost inappreciable. "And yet there exists an enormous difference between " the average rates of assessment of the villages in question, " for Sioni pays only six annas and three pies per acre, while, " for the same description of soil, Chincholi pays 12 annas " and eight pies per acre. The difference between these rates " is more than a hundred per cent. The subjoined state-" ment is illustrative of the unequal apportionment of the " assessment over the villages of this taluka : the villages " included in brackets adjoin one another :-

TRa Day	More,	0	#000 00000 000 000 00000 0 0000
Difference bet and New as per Colum	-Long.	00	
Average Rate of Assess- ment accord- ing to	Survey.	10	жининовиничничничничного оста «о-виножничного иновосом и 274-оста и 274-ост
Old Average Ente of	Albertanens	0	Androng and order order of the state of the
Value of Soil according	tion Scule.	9	は今日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の
Name of Villages.		-	The state of the s
Date Date	Maximum reacc		MO
	Class.	00	
'20	quinn		一一一日日十四日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日

The nett increase in the revenue accruing from the application of survey rates, for the year only in which these rates were introduced, will be seen from the following state-

ment :-						
Name of Division.	Amount of Assess- ment according to Old Rates.	Amount of Assessment according to Survey Rates after deducting for lands thrown up.	Amount of nett In- crease accruing from Survey Set- tlement.	Percentage of In- crease.	Total Cost of Survey operations.	Percentage of Amount of nett Increase & Total Cost of Survey operations.
N. W. Division W. Division			1,88,963 85,629			40°59 42°20
	26,38,214		2,74,599	10.41	6,67,463	4170

From a study of these figures it will be observed that in the North-Western Division, while the acreage of the cultivated lands has, according to our measurements, increased by 14.7 per cent., the assessments have increased only by 9.90 per cent., which conclusively shows that there has not been any undue enhancement of assessments. In the same way, in the Western Division, while the acreage has increased by 39 87 per cent., the assessments show an increase of only 11.72 per cent. The nett increase for both Divisions, resulting from the introduction of the new rates, for the year immediately following the Survey Settlement, amounts to Rs. 2,74,592. This amount is for one year only. From 1288 Fasli, when survey rates were first introduced into the Paitan Taluka, down to the present year 1292, the nett increase accruing from the application of the survey rates amounts in the N. W. Division to Rs. 3,33,277, and in the Western Division to Rs. 1,19,841, making a total of Rs. 4,53,118, which, I need not say, is not an inconsiderable sum.

The total cost of the survey operations in the talukas

hitherto settled in the N. W. Division amounts to Rs. 4,65,494. Deducting from this amount the sum of Rs. 3,33,277, being the nett increase of revenue resulting from the introduction of survey rates, as shown above, a balance of Rs. 1,32,217 is left. Calculating on this data it may be said that in about one year more, the cost of the survey in the talukas hitherto settled will have repaid itself. In the same way, the total cost of the survey in the six talukas of the Naldrug District, in which the survey rates have been introduced, amounts to Rs. 2.01,969. Deducting from this amount the sum of Rs. 1,19,841, being the nett increase resulting from the survey settlement, as shown above, a balance of Rs. 82,128 is left. This will be recovered in about one year. It will thus be observed, that the Revenue Survey Department is in a fair way of shortly paying its own expenses, and that besides the numerous benefits it has conferred on the country, it will in future bring in revenue to Government. For detailed information see statements F appended to this Memorandum.

A glance at statement B appended to this Memoremdum will show an annual falling off in the revenues in some of the talkeas in the Aarnagabad District, in which the survey rates have been introduced. The cause of this falling off is not far seek. The faminon (1876-778 has left its mark on the Gandapur, Valipur, and Paitan Talukas, and hence in that tract country, the impovershument of the winst base left to the contraction of their holdings. Before the introduction of the survey most of the Talukars had, as a rule, refused to allow the cultivators to contract their holdings, and this naturally enough tended to impoverish theretaits. Therevenue officers, under a mistaken notion that theywere benefitting both the Government and the rains, discouraged the practice of allowing the latter to rainguish parts of their holdings.

In paragraph 6 of the Joint Report it is stated:—
« One manifest advantage of breaking up the assessment of

a village into portions so minute is the facility it affords to the cultivators of contracting or enlarging their farms

" from year to year, according to the fluctuating amount of agricultural capital and stock at their disposal, which is of

"incalculable importance to farmers possessed of so limited resources as those of the cultivating classes throughout

"India." Again in paragraph 7, it is stated :-- "The loss of a few bullocks by disease, or other causes, may quite

" of a few bullocks by disease, or other causes, may quite "incapacitate a raiat from cultivating profitably the extent

"incapacitate a raist from cuttivating product,"
of land he had previously in tillage, and without the pri-

" vilege of contracting the extent of his farm, and conse-

" be very shortly consummated,"

It will easily be understood that, foreing upon the entireators more land than they are able probably fet till is to consumate their ruin. Before the introduction of the survey the raists had more land than they were able to bring under the plough, and even now, when many of them have retinquished great portions of their holdings, they have on an average perhaps a little more land than they can properly till.

This will readily be understood from the following table before the contract of the contract of

Name of Division.	No. of Registered Occupants.	stered Rullseks. Area in each O		Average Area per each Oc- cupant.	Average Area in Acres per each pair of Bullocks.
N. W. Division.	35,668	1,57,524	19,01,195	53'3	24'1
W Division	17.053	92,081	9,56,114	561	20'8

From the foregoing statement it will be observed that in the N. W. Division, on an average, there are 24th acres to each pair of bullooks, whereas a rains is only able to till about eighteen to twenty acres of land with a pair of bullooks. In the Western Division the average is very fair. For details see statements and El appended to this Memorandum. I now understand that the raints of the talukas of Gandapur, Vaijapur, and Paitan are beginning to recover from the effects of the famine of 1876-77, and that during the present year they have taken up waste lands (to the extent of about Rs. 17,000) that had lately been thrown out of cultivation.

In the talukas of Ambad, Kannad, Bokurthun, Sillode, and Adjunta, the introduction of the survey rates has been attended with successful results. The Jaulna and Aurangahaba Talukas were settled only during the present year, and therefore just now it would be somewhat premature to form any conclusion as to the advantage or otherwise of the new settlement. But from the fact of very little land having been thrown up at the time of settlement, and from the fairly prosperous condition of these talukas, I anticipate flast our new rates will work favourably here. The result of the settlement in the Nakfrug District has also been very favourable, as will be seen from statement B.

It is natural that on the introduction of revised rates in any taluka there should be a certain amount of dissatisfaction amongst those occupants whose assessments have been enhanced. That their dissatisfaction should find vent in netitions to Head-Quarters is also natural enough. Hence I have received a few petitions from different interested Patels. Patwadis, and sometimes raiats, complaining of enhanced assessments. As a rule, I have in reply informed the petitioners that as their fields had been accurately measured, and classed, and that as a moderate assessment had, with the sanction of Government, been imposed upon their village, no steps could be taken in the matter of their complaints. Before the introduction of the survey, whenever any raiats relinquished their holdings on account of enhanced assessments, the Tebsildars used to call them together, and by dint of persuasion, and some sort of compromise, prevailed upon them to take back their lands. The raiats are therefore under the impression that they have but to complain or throw up their holdings, when the same sort of persuasion would be used with them. In fealing with the raists a little firmness is very necessary. When settling a portion of the Paitan. Talaka, the raists of the village of Mundapur, the assessment of which had increased by something like 300 per cent, throw up their hands. I at once accepted their resignations of their holdings, and at the same time informed them that the lands they had relinquished would be given to the raists of other Villages. A five days subsequent to this, when I was at Ahmednugger, on my way to Hydrenhad, the raists came to mo in a body and begged most carnestly that their lands should be given back to them at the new rates, and that I should forgive them for having as thoughtlessly relinquished their holdings.

The introduction of survey extlement in the different talukas was followed by a change in the forms of the villago papers prepared by the Patwadis. The old forms were very complicated, and inconveniently large, and conjointly with the new settlement, it was necessary to introduce new forms. With some slight modifications, Mr. Hope's village forms there were not the property of the produced. This measure has curtailed to a considerable extent the work of the Description.

In each tainba, a measurer on a salary of Rs. 25 per month has been appointed to annually inspect the boundary marks, with a view to their future maintenance and preservation. In the event of any dispute arising as to the boundaries of fields the measurer is to proceed to the spot, and settle it with the aid of the village map. During the first two or three years after the survey settlements the and to inspect all the marks of every village in his tainka, and after that he has to annually inspect a certain percentage of the marks of orach village. No work in the different branches of the survey has been allowed to fall into arrears. The classification has kept his pace with the measurement; and, as a rule, the settlement has closely followed on the classification. To bring the three different operations of the sarvey as close to one another as possible, it has been at times necessary either to reduce or strengthen the different measuring and classing establishments.

All the accounts of both the Superintendents' offices have been made up to the end of the year 1291 Fasil, and have been finally adjusted in the Accountant General's office. All vouchers for expenditure incurred have been submitted to the Accountant General, and sanction has been obtained for every item of expenditure incurred up to the end of that year.

It must not be imagined that when once a settlement has been introduced into any one district, there is nothing more left to be done. The working of the settlement will entirely depend upon the Talukdars and Tahsildars. If these officers take an interest in their work, and understand it. thoroughly, the new settlement will work very satisfactorily, and prove of great benefit both to Government and to the raiats. If they are careless, or if they don't understand the system on which the settlement has been made, then there will be grave fears of its proving anything but advantageous to the Government and to the raiats. To insure the satisfactory working of the survey settlement it is essentially necessary that the Talukdars and Tehsildars should be appointed from among the survey officers. Towards this end, it will be necessary to have a few extra officers attached to the Survey Department as supernumeraries, so that they may be ready to take the place of any Assistants or Sub-Assistants when they are transferred to the Revenue Department in the surveyed districts. Some time ago I had submitted a report on the subject to Government, and they

were pleased to direct that in the Aurangebal District, none but the officers from the survey should be appointed in the Revenue Department. If this is not feasable, then I would suggest that all the second and third Talukdars and Tobishlars, in the surveyed districts should be attached to this Department for a time, so that they may be made an convent with the working of the settlement.

Before concluding this Memorandum, it is necessary that I should place on record the highly valuable services that have been rendered to the Surrey Department by the two Superintendents and my Assistant.

I have pointed out the difficulties I experienced at the outset in organizing the Department. It was not an easy matter when I first started the survey, to get a capable officer whom I could place at the head of the Department. I was, however, fortunate in selecting for this post Mr. Furdeonji Jamshedji, who was acting second Talukdar of the Aurangabad District, when I first met him there in 1875. Young, energetic, intelligent, well informed and thoroughly well grounded in revenue work, he was in my opinion the best officer to whom I could entrust the work. Personally he did not care to join the Revenue Survey, but on my applying to Government they were pleased to transfer his services to this Department. At a time when almost every one was new to his work, and when a great opposition existed against the Department, Mr. Furdoonji displayed untiring energy, tact, judgment, and ability in the discharge of his duties, and in course of time he was enabled to surmount the inumerable difficulties that came in his way. In short, I may honestly assert that whatever good work has been done in the Aurangabad Survey, the credit of it is deservingly due to Mr. Furdoonji, of whose integrity, abilities, and zeal I have formed the highest opinion.

Mr. Kader Beg, who had been trained in the Roorkee

SALAR JUI

College, and who finerform was thoroughly conversant with scientific surveying, served his apprenticeship in the Revenue Survey as a measuring Assistant for about twoyears and a half. He conducted his duties with such remarkable abilities, gal, and diligenous, that when survey operations were started in the Naddrug District, I at once placed film as the head of the Department there. He has conducted his duties with integrity, and, and shifty, and he has all along very closely superpixed the work of all his aboutelinates.

Mr. Aga Shekh Mahomed, my Asistanh, was employed for several years as an Assistant Engineer in the Public Works Department, and was very highly thought of by Mr. Wilkinson. He joined this Department in 1288 Fashi. He has been my Assistant since then, and has rendered the Department excellent service by making long tours in the districts, and by personally testing measuring and classing work. The different reports be made of his tours, and which exist in my office, kept me well informed of the work going on. Mr. Shekh Mahomed is a thoroughly urgistly, able, and honest officer, and has given me every satisfication.

Ht would be unfair on my part if I sere to make no mention here of the good services that have been rendered by Mr. Vasodeo Trimbak. He has been of great assistance to me in settlement work, of which he had showl eighteen years' experience in the Berar. Mr. Vasodeohas a vory good knowledge of measuring, classing, and settlement work, and he is an able, well-informed, and honest

Without mentioning each Assistant and Sub-Assistant by name, I would here simply state that, so far as I know, each and all of them, Mahomedans, Hindus, Parsees, and Christians are an efficient body of officers, and they have by their zeal, diligence, and abilities given general satisfaction.

I have drawn up this Memorandum for the information of my nuccesor, so that he may be cognizant of all the difficulties I had to struggle against, and that he may be informed of the progress the Revenue Survey has made in the Mahratan Districts of His Highness' Dominions during the seven years I have been connected with it.

> MAHADI ALI, Survey and Settlement Commissioner.

Hyderabad Deccan, 1st August, 1882.

Statement showing the amount of Work turned out by the Departs
therein together with ti

Fash Year.	DIVISION.	Total Area surveyed in Acres.	Salaries of Measurers.			Salaries of Assistants and their Establish- ments.			Superintendent and Establishment.				Total.		
1	2	3	1	4			5			6			7		
1285	North-Western	1,92,700	0	5,316 13	0		8,119	7	0	7,516	15	0	21,013	3	
1296	Do	8,72,199	0	25,909 0			41,336	0	0	29,770	0	0	97,073	0	
	Total	10,64,908	0	31,285 12	1 2		49,515		0	37,996	15	6	1,18,068	3	l
1285	North-Western	13,18,300	0	33,022 13	3 6	4	58,075	6	q	45,015	. 0		1,36,143	4	
1287	Western	4,00,203	9	11,331 6		0	12,395	8					19,002		
128	North-Westers	11,00,989	9	33,934 1	9 1	9	43,308	8					1,92,003		
128	Western	9,28,418	0	21,791 1	2	6	42,638	1	. 6				1,01,310		
128	North-Western	0. 11,14,014	18	27,830	6	6	39,253	4		37,88	/ 10	1	1,01,939	1	
128	Western	9,25,510	0	23,119 1	10	0	37,108		0	35,51	3 3		95,371		
125	North-Wester	8,29,448		21,039 1		9	30,435	2	-						
125	Western	4,98,157	0	19,849	1		25,305	4	1	25,62	1 8				

Total for the N. W. Division. 43,63,753 3 1,15,817 9 3 1,71,671 5 3 1,62,530 10 9 4,63,00 9

Total for the Western Diel- 27,55,288 0 T0,122 1 0 1,17,537 6 0 1,26,280 15 6 3,19,500 6 alon